

# Decision log

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| Decision                          | Status  | Stakeholders | Outcome   | Due date | Owner   |
|-----------------------------------|---------|--------------|---|----------|---|
| Try to implement connascence      | DECIDED |              | Connascence will not implemented  |          | Eldar Hauge<br>Torkelsen<br>Kent<br>Wincent<br>Holt Zohaib Butt |
| Parsing function calls in c++     | DECIDED |              | Partial parsing without include   |          | Eldar Hauge<br>Torkelsen<br>Kent<br>Wincent<br>Holt Zohaib Butt |
| Listeners VS Java.String          | DECIDED |              | We use Java.String because the complexity of this issue was too great.  |          | Zohaib Butt Eldar Hauge<br>Torkelsen<br>Kent<br>Wincent<br>Holt |
| Parse function pointers or not?   | DECIDED |              | The function pointers are not parsed. Currently no listener is found to parse pointers which makes complexity of this task sky rocketing. |          | Zohaib Butt Eldar Hauge<br>Torkelsen<br>Kent<br>Wincent<br>Holt |
| Use of websocket                  | DECIDED |              | We went with websocket and relaxed the REST requirement   |          | Eldar Hauge<br>Torkelsen<br>Zohaib Butt Kent<br>Wincent<br>Holt |
| "sloccount" vs. "kloc" vs "wc -l" | DECIDED |              | We went for "wc -l" which doesn't care for any language.  |          | Kent<br>Wincent<br>Holt Eldar Hauge<br>Torkelsen<br>Zohaib Butt |
| Antlr prototype                   | DECIDED |              | We will be prototyping it and expecting to refactor later.  |          | Eldar Hauge<br>Torkelsen  |
| Using antlr                       | DECIDED |              | We went with antlr as it is a well vetted and well regarded project with long history and regular updates.                                |          | Eldar Hauge<br>Torkelsen<br>Zohaib Butt Kent<br>Wincent<br>Holt |

postponing/removing  
userstory allowing  
user to submit lexer  
files

DECIDED

We prioritised other stories and expect the story to  
be removed later.

Eldar  
Hauge  
Torkelsen  
Zohaib  
Butt Kent  
Wincent  
Holt

Use of Force directed  
graph library

DECIDED

We decided to use a self implemented fdg algorithm  
(based on Kamada & Kawai (1989)) because of  
library constraints. Cause we represent different  
data structures (including function, classes and  
namespaces) as different nodes, some nodes  
would naturally have a stronger attraction to related  
structures and more repulsive to non-related. All  
libraries we found, took one attractive and repulsive  
force and applied it to all which didn't serve our  
needs.

Kent  
Wincent  
Holt Elda  
r Hauge  
Torkelsen  
Zohaib  
Butt

Antlr for Java target  
or Golang target

DECIDED

We decided to use Java to parse and give the  
output to Golang to further construct the REST API.

Zohaib  
Butt Elda  
r Hauge  
Torkelsen

Platform for the  
product

DECIDED

We decided to go for web solution because then the  
solution would be operating system independent.

Zohaib  
Butt Elda  
r Hauge  
Torkelsen  
Kent  
Wincent  
Holt

Backend server  
language

DECIDED

We went with golang.

Eldar  
Hauge  
Torkelsen  
Zohaib  
Butt Kent  
Wincent  
Holt

Refactor the java  
parser

DECIDED

Limited refactoring, making models for defining  
structure and print as json structure. We left the  
refactoring required for understanding scopes for a  
later sprint as this require more work.

Eldar  
Hauge  
Torkelsen  
Zohaib  
Butt Kent  
Wincent  
Holt